

ABSTRACT

Disclosed is a device for measuring accelerations for a vehicle passenger protection system, whereby a first and second acceleration sensor with a first or second sensitivity direction are fitted in relation to a prespecified main direction of measurement, which form a first or second transverse projection in their projection onto a first or second transverse direction which is aligned vertically to the main direction of measurement, together with suitable evaluation devices for evaluating the processed first and second measuring signals. The first and second transverse projection of the first and second sensitivity directions run parallel to each other, and the first and second main projection of the first and second sensitivity direction run antiparallel to each other. Furthermore, the evaluation of the measured values provided by the sensors is conducted in such a manner that at least a partial error compensation results when the reference value changes in relation to the first and the second signal. Preferably, the evaluation is conducted in such a way dependant on the alignment of the first and second sensitivity direction that the error compensation is at a maximum level when the first and second reference value is changed.